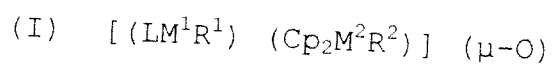


ABSTRACT

The novel binuclear, oxygen-bridged, bimetallic complexes of the general formula (I):



are suitable as polymerization catalysts for olefin polymerization. ($M^1 = Al, Ge, Zr, \text{ or } Ti$; $M^2 = Zr, Ti, \text{ or } Hf$; $Cp = \text{cyclopentadienyl}$; $R^1, R^2 = H, \text{ methyl, ethyl, i-propyl, t-butyl, halogen, phenyl, alkylphenyl, } SiMe_3$; $L = \text{a bidentate, doubly heteroatom-coordinated organic chemical ligand, which together with the metal } M^1 \text{ forms a 5 or 6-membered ring.}$) They display very good catalytic activities, good operating lives, and require little cocatalyst.

(Figure 3)